

ABSTRACT

Methods, software, and apparatus for transparently pairing data with a command object, with respect to the application which wishes to present the data, are disclosed. In one aspect of the present invention, a computer-implemented framework for associating data with a command object includes a data handler mechanism arranged to interface with an application which wishes to use the data. The framework also includes a data retriever mechanism that is arranged to obtain the data, and is in communication with the data handler mechanism, as well as a mapping mechanism, which is also in communication with the data handler mechanism, and is arranged to obtain the command object. In one embodiment of the present invention, the data is a stream of bytes, and the data handler mechanism is used to bind the stream of bytes to the command object.